



THERMOPLASTIC ROAD MARKING PAINTS AASHTO M249

TECHNICAL DATA SHEET (TDS)

WHITE & YELLOW

Thermoplastic road marking material conforming to AASHTO M249 shall consist of light colored aggregate, pigment and extender, bound together with aliphatic hydrocarbon resin plasticized with mineral oil. Glass beads (Ballotini) shall be in accordance with AASHTO M247 – TYPE I. The material shall be provided in granular.

Composition of Constituents

Constituent	White	Yellow
Binder	18 Min	18 Min
Glass Beads (Ballotini)	30 – 40	30 – 40
Titanium Dioxide	10 Min	
Calcium Carbonate and Inert Filler	42 Max	* Note
Yellow Pigment		As Required

Note: Amount of yellow pigment calcium carbonate and inert filler shall be the option of the manufacture, providing all other requirements of this specification are met

Physical Characteristics:

Softening Point °C	102 ± 9.5	102 ± 9.5
Specific Gravity gm/cm ³	< 2.15	< 2.15
Flowability %	18 Max	21 Max.
Flowability – Extender Heating	28 Max	28 Max.
Drying Time	3 – 5 min @ 32°C	3 – 5 min @ 32°C
Yellow Index	Below 0.12	
Cracking Resistance	No Cracks	No Cracks
Impact Resistance (Joules)	≥ 1.13	≥ 1.13
Color Daylight Reflectance	75% min.	45% min.

Storage Life: One year when the material is properly stored under a covered area.